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L5	447369	interact\$4 same data same struct\$4 same candidat\$1 same sequenc\$4 same lowest same level\$1 ssme interaction\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/25 16:36
L11	0	interact\$4 same data same structur\$4 same candidat\$2 same sequenc\$4 same lowest same level\$1 same interaction\$1 same children\$1 same generat\$4 same longest\$1 same element\$1 same root\$1 same identif\$4 same add\$4 same represent\$4 same expand\$4 same length\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/25 16:41



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1 [Fortran 8X draft](#)



Loren P. Meissner

December 1989

ACM SIGPLAN Fortran Forum, Volume 8 Issue 4

Publisher: ACM Press

Full text available: [pdf\(21.36 MB\)](#)

[Addi](#)

Standard Programming Language Fortran. This standard specifies the form and establishes the previous standard, commonly known as "FORTRAN 77", is entirely contained within this standard.

2 [Computing curricula 2001](#)



September 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press

Full text available: [pdf\(613.63 KB\)](#) [html\(2.78 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#).

3 [Range queries in OLAP data cubes](#)



Ching-Tien Ho, Rakesh Agrawal, Nimrod Megiddo, Ramakrishnan Srikant

June 1997

ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD

Publisher: ACM Press , ACM Press

Full text available: [pdf\(1.91 MB\)](#)

[Addi](#)

A range query applies an aggregation operation over all selected cells of an OLAP data cube with operations: SUM and MAX. These two operations cover techniques required for most popular aggregation operations.

4 [Abstract state machines capture parallel algorithms](#)



Andreas Blass, Yuri Gurevich

October 2003

ACM Transactions on Computational Logic (TOCL), Volume 4 Issue 4

Publisher: ACM Press

Full text available: [pdf\(610.28 KB\)](#)

Additional Information:

We give an axiomatic description of parallel, synchronous algorithms. Our main result is that every parallel algorithm can be described by an axiomatization.

Keywords: ASM thesis, Parallel algorithm, abstract state machine, postulates for parallel computation

5 Status report of the graphic standards planning committee of ACM/SIGGRAPH: State-of-t



Computer Graphics staff

September 1977 **ACM SIGGRAPH Computer Graphics**, Volume 11 Issue 3

Publisher: ACM Press

Full text available: pdf(9.03 MB)

Additional Information: [full citation](#), [references](#)

6 Using nonspeech sounds to provide navigation cues



Stephen A. Brewster

September 1998

ACM Transactions on Computer-Human Interaction (TOCHI),

Publisher: ACM Press

Full text available: pdf(298.94 KB)

Addi

This article describes 3 experiments that investigate the possibiity of using structured nonspee
Rules were defined for the creation of hierarchical earcons at each node. Participants had to id

Keywords: auditory interfaces, earcons, navigation, nonspeech audio, telephone-based interf

7 Special issue: AI in engineering



D. Sriram, R. Joobbani

April 1985

ACM SIGART Bulletin, Issue 92

Publisher: ACM Press

Full text available: pdf(8.79 MB)

Addi

The papers in this special issue were compiled from responses to the announcement in the July
countries. About half the papers were received over the computer network.

8 Scalable packet classification

Florin Baboescu, George Varghese

February 2005

IEEE/ACM Transactions on Networking (TON), Volume 13 Issue 1

Publisher: IEEE Press

Full text available: pdf(501.73 KB)

Addi

Packet classification is important for applications such as firewalls, intrusion detection, and diff
solutions such as TCAMs do not scale to large classifiers. However, even for large classifiers (si

9 On variations of queue response for inputs with the same mean and autocorrelation functi

Bruce Hajek, Linhai He

October 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 5

Publisher: IEEE Press

Full text available: pdf(446.05 KB)

Additional Information: [full citation](#), [references](#), [citics](#), [index term](#)

Keywords: multiplexing delay, queueing, spectral analysis

10 Graphs and trees: Efficiently mining frequent trees in a forest



Mohammed J. Zaki

July 2002

Proceedings of the eighth ACM SIGKDD international confere

Publisher: ACM Press

Full text available: pdf(1.26 MB)

Addi

Mining frequent trees is very useful in domains like bioinformatics, web mining, mining semistr
algorithm to discover all frequent subtrees in a forest, using a new data structure called scope-

11 A model for recentralization of computing: (distributed processing comes home)



Harold Lorin
March 1990

ACM SIGARCH Computer Architecture News, Volume 18 Issue 1

Publisher: ACM Press

Full text available: [pdf\(1.38 MB\)](#)

Addi

Distributed systems commonly contain heterogeneity at all levels of systems structure, differer
their structures, even when they are multiprocessors. This paper explores a way of using the n

12 Equal rights for functional objects or, the more things change, the more they are the same



Henry G. Baker
October 1993

ACM SIGPLAN OOPS Messenger, Volume 4 Issue 4

Publisher: ACM Press

Full text available: [pdf\(2.61 MB\)](#)

Addi

We argue that intensional *object identity* in object-oriented programming languages and datab
analogous to the normal forms of relational algebra, provides cleaner semantics for the value-t

13 A prototype implementation of the SQL Ada module extension (SAME) method



Allison LeClair, Susan Phillips
December 1990

Proceedings of the conference on TRI-ADA '90

Publisher: ACM Press

Full text available: [pdf\(1.20 MB\)](#)

Addi

As Ada becomes more widespread, the ability to access commercial database technologies thro
language bindings between Ada and SQL, a relational data base language. This paper presents

14 Powerlist: a structure for parallel recursion



Jayadev Misra
November 1994

ACM Transactions on Programming Languages and Systems (

Publisher: ACM Press

Full text available: [pdf\(1.63 MB\)](#)

Addi

Many data-parallel algorithms—Fast Fourier Transform, Batchers's sorting schemes, and the pre
parallelism and recursion. Simple algebraic properties of this data structure can be exploitd to

Keywords: Batchers sort, Fast Fourier Transform, algebra of parallel programs, hypercube, pai

15 Are there advantages to high-dimension architectures?: Analysis of k-ary n-cubes for the



Shantanu Dutt, Nam Trinh
January 1996

Proceedings of the 10th international conference on Supercomputing

Publisher: ACM Press

Full text available: [pdf\(1.24 MB\)](#)

Additional Information: [full citation](#), [references](#), [index ter](#)

16 Status report of the graphic standards planning committee



Computer Graphics staff

August 1979 **ACM SIGGRAPH Computer Graphics**, Volume 13 Issue 3

Publisher: ACM Press

Full text available: [pdf\(15.01 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#)

17 The implementation of procedurally reflective languages



Jim des Rivières, Brian Cantwell Smith

August 1984

Proceedings of the 1984 ACM Symposium on LISP and function

Publisher: ACM Press

Full text available: [pdf\(1.71 MB\)](#)

Addi

In a procedurally reflective programming language, all programs are executed not through the
therefore, there are an infinite number of levels at which programs are processed, all simultane

18 External memory algorithms and data structures: dealing with massive data



Jeffrey Scott Vitter

June 2001

ACM Computing Surveys (CSUR), Volume 33 Issue 2

Publisher: ACM Press

Full text available: [pdf\(828.45 KB\)](#)

Addi

Data sets in large applications are often too massive to fit completely inside the computers inte
performance bottleneck. In this article we survey the state of the art in the design and analysis

Keywords: B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory,

19 When do bounds and domain propagation lead to the same search space?



Christian Schulte, Peter J. Stuckey

May 2005

ACM Transactions on Programming Languages and Systems (

Publisher: ACM Press

Full text available: [pdf\(380.67 KB\)](#)

Addi

This article explores the question of when two propagation-based constraint systems have the
determine propagation behaviors for conjunctions of constraints. We then show how we can us

Keywords: Constraint (logic) programming, abstract interpretation, bounds propagation, dom

20 Online tracking of mobile users



Baruch Awerbuch, David Peleg

September 1995

Journal of the ACM (JACM), Volume 42 Issue 5

Publisher: ACM Press

Full text available: [pdf\(2.65 MB\)](#)

Addi

This paper deals with the problem of maintaining a distributed directory server, that enables u:
matching with certain parameters enables efficient tracking. The communication overhead of o

Keywords: bounded packet header, bounded protocol, ideal transmission cost, lookahead, noi

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